



## ENGINEERED SOLUTIONS FOR INDUSTRIES WORLDWIDE

SOLON® BELLEVILLE SPRINGS | SOLON® PRESSURE SWITCHES | SOLON® WATCHMANSF6™

### PRESSURE SWITCH CONFIGURATION WORKSHEET

Use this worksheet as a guide to configure a Solon Pressure Switch. If unknown, leave the section blank. Once completed, email this document to our technical support and sales team at [techsupport@solonmfg.com](mailto:techsupport@solonmfg.com) and we will provide you with additional suggestions and options as well as price and delivery. You may also call 800.323.9717 for assistance, or use the *Live Chat* feature at [www.solonmfg.com](http://www.solonmfg.com).

Company: \_\_\_\_\_ Contact: \_\_\_\_\_ Phone: \_\_\_\_\_

### HOW TO CONFIGURE A PRESSURE SWITCH

Model Series (Housing Guide & Type)	Housing Option	# of Electric Switches	Special Features	Type & Rating of Electric Switches

### HOUSING SIZE GUIDE

2	Compact, lightweight--single or dual switching. Available for all types: General Purpose, Differential, Explosion-Proof, Heavy-Duty, Pneumatic Valve Actuated, Sanitary, Temperature-Compensated (TC), & Weather-Tight
42	Compact housing for high-pressure applications. Available for types: Differential, Explosion-Proof, & Heavy-Duty
47	Compact housing with wide base, ideal for low-pressure-sensing. Available for types: Explosion-Proof
5	Rugged cast-housing for single or dual switching. Available for types: General Purpose, Differential, Explosion-Proof, Temperature-Compensated (TC), & Weather-Tight
6	Larger housing accomodates up to four electric switches. Available for types: General Purpose, Differential, Explosion-Proof, Temperature-Compensated (TC), Vacuum, & Weather-Tight
7	Designed for low-pressure applications. The larger housing accommodates up to four electric switches. Available for types: General Purpose, Differential, Explosion-Proof, Temperature-Compensated (TC), Vacuum, & Weather-Tight

### SPECIFY A RANGE

Specify an adjustable pressure range, maximum deadband PSI and/or maximum working pressure range. Ranges vary based on model number. For additional support or questions determining a range for your requirement, contact our sales or engineering team.



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### BUILD A SOLON PRESSURE SWITCH

Using the guide below, plug the values into the configurator on the previous page to determine your Solon model number. Note: Not all values and features apply to all models. Consult our sales and engineering team with questions.

#### 1. SELECT MODEL SERIES (Based on housing guide table from previous page).

- 2 • 42 • 47 • 5 • 6 • 7

#### 2. SELECT A TYPE OF PRESSURE SWITCH

- General Purpose (PS) • Differential\* (PSD) • Explosion-Proof (PSX) • Heavy-Duty (PSH)
- Pneumatic Valve Actuator (PV) • Sanitary (SAN) • Vacuum (PSVAC) • Weather-tight (PSW)
- Temperature-Compensated (TC) Density Switch

#### 3. SELECT A HOUSING OPTION

- No Housing • X (Explosion-Proof; NEMA 4, 7, 9) • W (Weather-Tight; NEMA 4X & 12)

**4. SELECT SPECIAL FEATURES** There are many special features available to accommodate specific needs, including: pressure, hydraulic, vacuum, and explosion-proof. You may choose among some of the most common features, or we can help you select from the list below or discuss a custom requirement. Not all special features are available for all models. (If you have selected a Differential pressure switch, see the *Differential Pressure Switch Special Features* below).

“-” - No Special Features

**A** - Adjustable Deadband

**B** - Bellows Actuated

**E** - External Pressure Adjustment

**EE** - Two External Pressure Adjustments

**F** - Flange Base Mounting

**G** - Double Diaphragm

**J** - Safety Seal

**LL** - Indicator Lights

**M** - Male Pipe Mounting

**O** - High Over Pressure Diaphragm

**Q** - Double Snap-Acting Belleville Spring

**R>** - Manual Reset, Switch on Increase Pressure

**R<** - Manual Reset, Switch on Decrease Pressure

**SS** - Special Trim Base 316 Stainless Steel

**SI** - Special Trim Base PTFE (Not on X switches)

**SN** - Special trim Base Brass

**SY** - Special Trim Base PVC (Not on X switches)

**T** - PTFE Protected Diaphragm

**U** - Additional Painting after Assembly

**V** - High Temp Service - Not a UL-Listed Feature

**Z** - Viton Diaphragm

#### DIFFERENTIAL PRESSURE SWITCH SPECIAL FEATURES

**BD** - Bellows Actuated Differential Pressure

**DD** - Diaphragm Actuated Differential Pressure

**DDG** - Double Diaphragm Differential Pressure

**DO** - High Pressure - Low Differential Pressure

**DOSS** - Special Trim Base 316 Stainless Steel

**DOSN** - Special Trim Base Brass

**DDO** - High Pressure Two-Way Differential Pressure

**DSS** - Special Trim Base 316 Stainless Steel

**DSI** - Special Trim Base Teflon

**DSY** - Special Trim Base PVC

**DSK** - Aluminum Trim Base

#### 5. SELECT TYPE OF ELECTRIC SWITCHES (If unknown, fill out the application/environmental considerations and return to Solon).

- 1 - Low Deadband: 15A-125, 250, 480 VAC
- 2 - Standard Deadband: 15A-125, 250, 480 VAC; 0.5A-125 VDC
- 3 - High DC Rated (Magnetic Blowout): 10A-125 VDC; 3A-250 VDC
- 4 - Hermetically Sealed 11AMP, 125, 250 VAC; 5A-30 VDC
- 5 - Sub Miniature Switch: 2SPDT
- 6 - Gold Contact: 1A-125 VAC

**Application:** \_\_\_\_\_ **Environmental Considerations:** \_\_\_\_\_

*For any questions on how to configure a Solon Pressure Switch, please contact Solon Manufacturing Co.*